WHAT IS CLAIMED IS:

- 1. An information processing method comprising the steps of:
- (a) obtaining, among arithmetic instructions, information on data sets referred to by memory reference, and
- 5 (b) assigning to different banks a plurality of data sets simultaneously referred to by memory reference performed in accordance with an arithmetic instruction.
 - 2. The method of Claim 1, further comprising the step of:
 - (c) establishing bank assignment priority,
 - wherein in the step (b), the assignment to the banks is performed in sequence beginning with data sets that are high in the priority established in the step (c).
 - 3. The method of Claim 2, wherein in the step (c), the bank assignment priority is established according to a loop count that indicates the number of times the arithmetic instruction is executed repeatedly.
 - 4. The method of Claim 2, wherein in the step (c), the bank assignment priority is established according to data-use frequency.
 - 5. The method of Claim 2, further comprising the step of:
 - (d) searching for data sets referred to simultaneously with the data sets that are high in the priority established in the step (c),

wherein in the step (b), the data sets searched for in the step (d) are assigned preferentially to the banks.

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- 6. An information processing method comprising the steps of:
- (a) reading an instruction that specifies data sets to be assigned to different banks, and
- (b) assigning to the different banks the data sets that are specified to be assigned to the different banks.
 - 7. The method of Claim 6, wherein in the step (b), the data sets that are specified to be assigned to the different banks are assigned preferentially to the banks.
 - 8. The method of Claim 7, further comprising the step of:
 - (c) establishing bank assignment priority among the data sets that are specified to be assigned to the different banks,

wherein in the step (b), the assignment to the banks is performed in sequence beginning with data sets that are high in the bank assignment priority.

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- 9. An information processing method comprising the steps of:
- (a) reading an instruction that specifies to which bank a data set is assigned, and
- (b) assigning the data set to the specified bank.
- 20 10. The method of Claim 9, wherein in the step (b), the data set is assigned preferentially to the specified bank.
 - 11. An information processor, wherein information on a plurality of data sets simultaneously referred to by memory reference performed in accordance with an arithmetic instruction is obtained, and the data sets are assigned to different banks.

- 12. The processor of Claim 11, wherein the assignment to the banks is performed in sequence beginning with data sets that are high in bank assignment priority.
- 13. The processor of Claim 12, wherein a loop count that indicates the number of times the arithmetic instruction is executed repeatedly is set as the bank assignment priority.

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- 14. The processor of Claim 12, wherein data-use frequency is set as the bank assignment priority.
 - 15. The processor of Claim 12, wherein data sets that are referred to by the memory reference simultaneously with the high-bank-assignment-priority data sets are also assigned preferentially to the banks.

16. An information processor, wherein data sets to be assigned to different banks are specifiable.

- 17. The processor of Claim 16, wherein the data sets that are specified to be assigned to the different banks are assigned preferentially to the banks.
 - 18. The processor of Claim 17, wherein bank assignment priority is established among the data sets that are specified to be assigned to the different banks, and the assignment to the banks is performed in sequence beginning with data sets that are high in the bank assignment priority.

- 19. An information processor, wherein a bank to which a data set is assigned is specifiable.
- 5 20. The processor of Claim 19, wherein the data set is assigned preferentially to the specified bank.

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